



CMAX|HGX® Industrial Cutting Gas

A FUEL GAS THAT OUT PRODUCES ACETYLENE FOR CUTTING AND BRAZING AT A FRACTION OF THE COST

A 100 lbs./50kg. cylinder of CMAX|HGX® Fuel Gas provides over 5 times the BTUs of a standard 5cu.m3 Acetylene cylinder, while costing less. Here is what it means to you.

Finally, there is a reliable fuel gas for cutting, heating and brazing that will performance higher performance than acetylene, at a much lower price. CMAX|HGX® is the new standard of economy, performance and safety for gases used in the metal working process. CMAX|HGX® is a superior high temperature, high heat content fuel gas with worldwide availability.



= 5X



fuel gas has greater practical value than any other cutting fuel.

Reduce slag formation and easier removal

CMAX|HGX® fuel gas contains a balanced compound of metal organic material in a pure hydrocarbon solvent. The combustion catalyst of metal organic compounds inhibits the formation of molten slag, changing it into a material which vaporized in the burning process and deposited in dry form. The result is the smoothest surface after cutting.



Faster heat transfer for brazing, heating, bending, cambering, straightening, hardening and melting operations.

Whether you are using an CMAX|HGX® and oxygen mixture or an CMAX|HGX® and air mixture the superior heating value (neutral flame temperature and inner and outer flame temperature) that is the total heating value allows for faster heat transfer to the metal. This means faster brazing, heating and metal working operations.

Faster preheat and piercing rates for cutting

The piercing flame temperature of CMAX|HGX® Fuel gas exceeds the flame temperature of most cutting fuels. It starts the cut as rapidly as acetylene and preheats and pierces faster than other combined cutting fuels at a lower cost.

Safer and operator friendly

Non-toxic, non-injurious to health. No torch backfires. Non-sensitive to shock with a low explosive range. Creates no dangerous by-products. No annoying fumes and easy to use with standard equipment for LPG fuel gases. Long life for two place, non-fouling recessed tip torches used for cutting.

Faster cutting travel speeds

CMAX|HGX® fuel gas is capable for cutting travel speeds equal to acetylene while using lower quantities of oxygen than acetylene during cut of up to 15" thickness furthermore LPG (Propane & Butane) and other type of fuel gases are not as fast in cutting steel yet, also use much greater quantities of oxygen for the same amount of production.

The overall result is greater productivity.

CUTTING SAMPLE



Acetylene

CMAX

The highest combined inner and outer flame temperature plus the neutral flame temperature in oxygen provide the highest total heating value in the industry. CMAX|HGX®

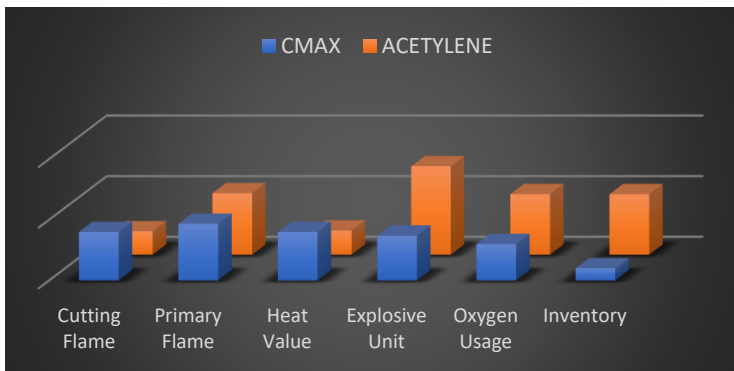


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HEATING VALUE OF FUEL GASES		
	CMAX	ACETYLENE
NEUTRAL FLAME TEMP. °F	5400	5700
NEUTRAL FLAME TEMP. °C	2983	3149
PRIMARY FLAME	468	507
SECONDARY FLAME	2144	936
TOTAL BTU/ft ³	2612	1470
TOTAL HEAT VALUE BTU/lb	21.6	21.5

PROPERTIES OF INDUSTRIAL FUELS		
	CMAX	ACETYLENE
SAFETY DATA		
SHACK SENSITIVITY	STABLE	UNSTABLE
EXPLOSIVE LIMITS IN OXY (%)	2.4-57	3.0-93
EXPLOSIVE LIMITS IN AIR (%)	2.3-9.5	2.5-80
MAX ALLOWABLE PRESSURE	CYLINDER	15psig
BUM VICTY IN OXY ft/sec	13.5	22.7
BACKFIRE TENDENCY	LOW	HIGH
TOXICITY	LOW	HIGH
SPECIFIC GRAVITY OF LIQUID	0.51	---
LBS/GAL LIQUID	4.29	---
FT ² /lb. GAS	8.66	14.6
SPECIFIC GRAVITY OF GAS	1.52	0.906
VAPOUR PRESSURE (psig) AT 70°	120	---
BOILING RANGE TEMP. °F	-50	-8.4



CUTTING PERFORMANCE COMPARISON OF CMAX TO ACETYLENE						
ACETYLENE GAS CUTTING						
TIP SIZE	METAL THICKNESS	PRESS OXYGEN	PRESS FUEL	OXYGEN USAGE CU.FT/HR	FUEL USAGE CU.FT/HR	SPEED (IN/MIN)
0	¼	30	2	50	17	20
1	3/8	30	3	90	25	19
2	½ - 1	45	3	140	27	15
3	1-2	50	3	165	29	12
4	2-3	50	3	270	31	9
5	3-4	50	4	330	45	8
6	5-6	55	5	465	52	6
7	8-10	65	6	675	70	3
9	14	75	6	1220	75	3
10	15	85	6	1315	75	3
CMAX FUEL GAS CUTTING						
0	¼	20-45	2	25-30	7-8	15-24
1	3/8	35-40	2	45-70	10-12	11-24
2	½ - 1	35-55	2	57-82	12	10-17
3	1-2	35-55	3	113-190	12	7-12
4	2-3	35-75	3	235-335	16	5-11
5	3-4	35-75	4	310-430	16	5-11
6	5-6	25-60	4	450	18	7-9
7	8-10	35-60	5	500	20	4-7
8	8-10	35-60	6	550	24	3-4
9	14	35-60	7	700	26	4-5
10	15	40-60	7	800	28	3-4

WHY CMAX ?

Advanced Technology

- ✓ High Heat Values
- ✓ Superior Cut Finish
- ✓ Low Kerf
- ✓ Low Slag Formation
- ✓ Less chipping and grinding
- ✓ Broad preheat adjustment range

Enhanced Performance

- ✓ R&D additives made in USA

Eco-Friendly

- ✓ Hydrocarbon Based
- ✓ Light Weight Cylinders
- ✓ Clean Emission
- ✓ Non-Toxic
- ✓ Stable Gas

Cost Effective

- ✓ Up to 30% cost savings
- ✓ Low Oxygen consumption
- ✓ Reduce Cylinder inventory by 5X
- ✓ Save Logistics Cost
- ✓ Save Cylinder Rentals
- ✓ No Trolley Required
- ✓ Less costly to maintain
- ✓ Increase Equipment Life

Safety

- ✓ 10X Safer than Acetylene
- ✓ Low Explosive Limit
- ✓ Easy to handle low pressure cylinders
- ✓ Resistant to flashback and backfire
- ✓ Less U.V. protection required
- ✓ Not sensitive to shock



FAQ: How to Switch from Acetylene to CMAX? Do you need to change existing Equipment & Accessories?

ANS: The Answer is NO, Switching is as easy as replacing the Empty cylinder with a filled one.

“Please CALL for a free DEMO”

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